Nouryon

SAFETY DATA SHEET

according to the Globally Harmonized System and US regulation

AMAZE NORDIC BARLEY

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1. IDENTIFIC	CATION				
Product	name	: AMAZE N	NORDIC BAR	LEY	
Product	Use Description	: Specific u	use(s):	Cosmetic additive	
Compan Telepho Fax		131 Ś De		ite 1000	
E-mail a Emergei	ddress ncy telephone	: : CANUTE	C: +1 613-99	6-6666 CHEMTREC: +1 800-	424-9300

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	powder		
Color	white		
Odor	odorless		
Hazard Summary	Risk of dust explosion.		
GHS Classification			
Combustible dust			
GHS label elements			
Signal Word	: Warning		
Hazard Statements	: May form combustible dust concentrations in air.		
Carcinogenicity:			
IARC	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.		
OSHA	 No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens. 		

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NTP	equal to	conent of this product present at levels 0.1% is identified as a known or antic len by NTP.	

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3. COMPO	SITION/INFORMATION	0	N INGREDIENTS
	substance/mixture zardous ingredients	:	Substance
4. FIRST A	ID MEASURES		
Gener	al advice	:	No hazards which require special first aid measures.
Inhala	tion	:	Rinse nose and mouth with water.
Skin c	ontact	:	Take off contaminated clothing and shoes immediately.
Eye co	ontact	:	Rinse with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
Ingest	ion	:	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
Notes Treatn	t o physician nent	:	Treat symptomatically.
5. FIRE-FIG	GHTING MEASURES		
Suitab	le extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
fighting	ic hazards during fire g / Specific hazards g from the chemical	:	Do not allow run-off from fire fighting to enter drains or water courses. Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges.
Comb	ustion products	:	No hazardous combustion products are known
	al protective equipment -fighters	:	In the event of fire, wear self-contained breathing apparatus.
Furthe	er information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

See also Section 9. Physical and chemical properties: Safety data

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6. ACCIDENT	TAL RELEASE MEA	SURES		
	Il precautions, prote I precautions		nent and emergency procedures ust formation.	
	ncy measures on al release	Only qua equipme	e personnel to safe areas. alified personnel equipped with suitabl ent may intervene. unauthorized persons entering the zo	
Environn	nental precautions	: Do not fl	ush into surface water or sanitary sew	ver system.
	for cleaning up / for containment	Sweep ι	and arrange disposal without creating up and shovel. suitable, closed containers for disposa	
Referenc	ce to other sections	: For disp	osal considerations see section 13.	
		For pers	onal protection see section 8.	
. HANDLING	G AND STORAGE			
Handling Advice o	g n safe handling	Avoid cr Keep aw smoking Dispose regulatic	of rinse water in accordance with loca	
	n protection against explosion	is forme	appropriate exhaust ventilation at plac d. king tools should be used.	ces where dust
	nents for storage d containers	Keep in Store be	original container. a dry place. tween 40-77°F (5-25°C). ntainer tightly closed.	

Advice on common storage : No special restrictions on storage with other products.

Other data : No decomposition if stored and applied as directed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

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Components	CAS-No.	Value	Control parameters	Update	Basis	Form of exposure	
Dust		TWA	50 Million particles per cubic foot	2012-07-01	OSHA Z-3	total dust	
	Further information	d: Al listed same 1.	ased on impinger samp l inert or nuisance dus d specifically by substa e as the Particulates N cf X 35.3 = million part	ts, whether miner ance name are co lot Otherwise Reg	ral, inorganic, or overed by this lin gulated (PNOR)	organic, not nit, which is the limit in Table Z-	
Dust		TWA	15 mg/m3	2012-07-01	OSHA Z-3	total dust	
	Further information	listed	l inert or nuisance dus d specifically by substa e as the Particulates N	ance name are co	overed by this lim	nit, which is the	
Dust		TWA	5 mg/m3	2012-07-01	OSHA Z-3	respirable fraction	
	Further information	listed	l inert or nuisance dus d specifically by substa e as the Particulates N	ance name are co	overed by this lin	nit, which is the	
Dust		TWA	15 Million particles per cubic foot	2012-07-01	OSHA Z-3	respirable fraction	
	Further information	d: Al listed same 1.	I seed on impinger sam I inert or nuisance dus I specifically by substa e as the Particulates N cf X 35.3 = million part	ts, whether miner ance name are co lot Otherwise Reg	ral, inorganic, or overed by this lin gulated (PNOR)	organic, not nit, which is the limit in Table Z-	
Dust		PEL	10 mg/m3	2014-11-26	CAL PEL	Total dust	
Dust		PEL	5 mg/m3	2014-11-26	CAL PEL	respirable dust fraction	
	Further information	are c char sphe	(n): The concentration and percentage of the particulate used for this limit are determined from the fraction passing a size selector with the following characteristics: Aerodynamic Diameter in Micrometers (unit density sphere)				
Engineering mea	sures	: Provide is forme	e appropriate exha ed.	ust ventilatior	n at places wl	nere dust	
Personal protect		: No pers required In the c with an	sonal respiratory p d. ase of dust, vapor approved filter. ask with a particle	r or aerosol fo	rmation use i	-	
Hand protection Material		: For pro	longed or repeate	d contact use	protective gl	oves.	

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Eye protection		Tightly fitting safety goggles Safety glasses with side-shields conforming to EN166
Skin and body pro	otection :	Protective suit
Hygiene measure		Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Environmental e General advice		Is Do not flush into surface water or sanitary sewer system.
PHYSICAL AND CH	IEMICAL PROP	ERTIES
Appearance	:	powder
Color	:	white
Odor	:	odorless
Odor Threshold	:	not determined
рН	:	4 - 6 Concentration: 40 %
Melting point	:	not determined
Boiling point	:	not determined
Flash point	:	No data available
Evaporation rate	:	not determined
Flammability (soli	d, gas) :	Sustains combustion
Flammability (liqu	ids) :	Not applicable
Self-ignition	:	716 °F / 380 °C
Upper explosion I flammability limit	imit / Upper :	No data available
Lower explosion I flammability limit	imit / Lower :	No data available
Vapor pressure	:	No data available
Relative vapor de	nsity :	No data available
Relative density	:	0.6

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	ility(ies)				
W	ater solubility	:	soluble in hot water (> 176 °F / > 80 °C)		
Sc	olubility in other solvents	:	No data available		
	ion coefficient: n- ol/water	:	No data available		
Deco	mposition temperature	:	No data available		
Visco Vis	sity scosity, kinematic	:	not determined		
Explo	sive properties	:	Not explosive		
Oxidiz	zing properties	:	Not classified as oxidizing.		

This material safety datasheet only contains information relating to safety and does not replace any product information or product specification.

10. STABILITY AND REACTIVITY					
Conditions to avoid	: None known.				
Materials to avoid	: None known.				
Hazardous decomposition products	: No hazardous decomposition products are known.				
Thermal decomposition	: No data available				
Reactivity	: Stable under normal conditions.				
Chemical stability	: Stable under recommended storage conditions.				
Hazardous reactions	: Dust may form explosive mixture in air.				

11. TOXICOLOGICAL INFORMATION

PRODUCT INFORMATION:

Hazard Summary Acute toxicity	:	Not classified based on available information.
Skin corrosion/irritation	:	Not classified based on available information.
Serious eye damage/eye irritation Respiratory or skin sensitization	:	Not classified based on available information. Respiratory sensitization: Not classified based on available information. Skin sensitization: Not classified based on available information.

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Germ cell mutagenicity	: Not cla	ssified based on available information.	
Carcinogenicity	: Not cla	ssified based on available information.	
Reproductive toxicity	: Not cla	ssified based on available information.	
STOT-single exposure	: Not cla	ssified based on available information.	
STOT-repeated exposure	: Not cla	ssified based on available information.	
Aspiration hazard	: Not cla	ssified based on available information.	
Potential Health Effects Inhalation	: Product	dust may be irritating to respiratory sys	stem.
Skin	: Product	dust may be irritating to skin.	
Eyes	: Product	dust may be irritating to eyes.	
Ingestion	: May be	harmful if swallowed.	
Aggravated Medical Condition	: None kr	nown.	
Toxicology Assessment Further information	: No furth	er data available.	
Test result Acute oral toxicity		oxicity estimate: 2,778 mg/kg Calculation method	
Carcinogenicity:			
IARC	equal to	edient of this product present at levels g 0.1% is identified as probable, possible carcinogen by IARC.	
OSHA	: No com	ponent of this product present at levels	
NTP	: No com equal to	0.1% is on OSHA's list of regulated ca ponent of this product present at levels 0.1% is identified as a known or anticip gen by NTP.	greater than or

12. ECOLOGICAL INFORMATION

PRODUCT INFORMATION:

Ecotoxicology Assessment

Additional ecological	: None known.
information	

Test result

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		stence and degradability) Result: Readily biodegradable. Method: OECD Test Guideline 301F GLP: yes	
Furthe	r information on ecology	/	
Hazaro	dous to the ozone layer		
Regula	ation :	40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances	
Remar	ks :	This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).	

13. DISPOSAL CONSIDERATIONS	3
Product	 Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local regulation.
	: Waste must be disposed of in accordance with federal, state and local environmental control regulations.
Contaminated packaging	 Empty remaining contents. Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

International Regulations

ADR

Not regulated as a dangerous good

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Further information for transport

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Not classified as dangerous in the meaning of transport regulations.

Domestic regulation

49 CFR

Not regulated as a dangerous good **TDG** Not regulated as a dangerous good **NOM-002-SCT** Not regulated as a dangerous good

15. REGULATORY INFORMATION

Notification status

TCSI TSCA AICS DSL	 YES. On the inventory, or in compliance with the inventory NO. Substance(s) not listed on TSCA inventory YES. On the inventory, or in compliance with the inventory NO. This product contains one or several components that are not on the Canadian DSL nor NDSL.
ENCS ISHL KECI PICCS IECSC NZIoC	 NO. Not in compliance with the inventory NO. Not in compliance with the inventory YES. On the inventory, or in compliance with the inventory YES. On the inventory, or in compliance with the inventory YES. On the inventory, or in compliance with the inventory NO. Not in compliance with the inventory

For explanation of abbreviations, see section 16.

TSCA list

TSCA 5(a)(2)	o substances are subject to a Significan	t New Use Rule.
TSCA 12(b)	o substances are subject to TSCA 12(b)) export notification
	equirements.	

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	Combustible dust
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

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This product does not contain any chemicals subject to disclosure and listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F). This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

16. OTHER INFORMATION

Full text of other abbreviations

CAL PEL OSHA Z-3	:	contaminants (Title 8, Article 107)
CAL PEL / PEL OSHA Z-3 / TWA	:	Permissible exposure limit 8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx -Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 -Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances: (Q)SAR - (Quantitative) Structure Activity Relationship: REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating

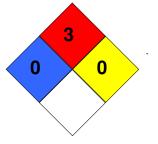
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Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Further information

HMIS Classification	: Health Hazard: 1 Chronic Health Hazard: / Flammability: 3 Physical hazards: 0
NFPA Classification	: Health Hazard: 0 Fire Hazard: 3 Reactivity Hazard: 0



Notification status explanation

TCSI TSCA AICS	Taiwan Chemical Substance Inventory (TCSI) United States TSCA Inventory Australia Inventory of Chemical Substances (AICS)
DSL	Canadian Domestic Substances List (DSL)
ENCS	Japan. ENCS - Existing and New Chemical Substances Inventory
ISHL	Japan. ISHL - Inventory of Chemical Substances
KECI	Korea. Korean Existing Chemicals Inventory (KECI)
PICCS	Philippines Inventory of Chemicals and Chemical Substances (PICCS)
IECSC NZIoC	China. Inventory of Existing Chemical Substances in China (IECSC) New Zealand. Inventory of Chemical Substances

Further information

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The information in this safety data sheet should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. The user must determine the appropriate measures that need to be implemented for the use and handling of this product in the c ontext of the user's operations and use of this product. The information contained herein supersedes all previously issued bulletins on the subject matter covered. If the date on this document is more than three years old,call to make certain that this sheet is current. No warranty is made as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. User must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes, including mixing with other products. Nothing contained herein shall be construed as granting or extending any license under any patent.

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.